

ABSTRACTGRAPHITE AND NITROGEN-FREE CAST ALLOYS

5

The present invention is related to an air melted, substantially graphite and nitrogen-free alloy, aged or not aged by precipitation hardening, specially adapted for gas turbine or internal combustion engine exhaust system parts, comprising a graphite-free microstructure of the following composition:

	Carbon	max 0.4 wt.%
	Silicon	0.5 to 6 wt.%
	Manganese	0.1 to 4.5 wt.%
15	Phosphorous	0.01 to 0.08 wt.%
	Nickel	13 to 38 wt.%
	Chromium	0 to 6 wt.%
	Sulphur	max 0.12 wt.%
	Nitrogen	max 0.02 wt.%
20	Iron	balance